Datasheet for ABIN1001064

GUT2 Protein (AA 43-600) (His tag)

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Overview

Quantity:	10 µg
Target:	GUT2
Protein Characteristics:	AA 43-600
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GUT2 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Mitochondrial Glycerol-3-Phosphate Dehydrogenase (mGPD)
Sequence:	ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS ADCISEPVNR EPPSREAQLL TLQNTSEFDI LVIGGGATGS VQAAEEALPR IVELMGRELN WDDYKKQEQL ETARKFLY
Characteristics:	recombinant mGPD comprises a 558 amino acid fragment (43-600) corresponding to the GlpA

Product Details

	domain fragment of the mature mGPD protein and is expressed in E. coli with an amino-terminal hexahistidine tag.
Purity:	> 95 %

Target Details

Target:	GUT2
Alternative Name:	Mitochondrial Glycerol-3-Phosphate Dehydrogenase
Background:	Mitochondrial glycerol-3-phosphate dehydrogenase (mGPD) is a Ca2+ -sensitive, FAD-binding protein, located on the outer surface of the inner mitochondrial membrane. mGPD catalyses the oxidation of glycerol-3-phosphate to dihydroxyacetone phosphate (DHAP) with concomitant reduction of the enzyme-bound FAD. Two isoforms have been described for mGPD. Isoform 1 comprises 727aa residues, whereas isoform 2 lacks 126aa residues of the N-terminus. Deficiency of mGPD appears to contribute to the impairment of glucose-stimulated insulin release in several animal models of non-insulin dependent diabetes mellitus.,Glycerol-3-Phosphate Dehydrogenase 2, GPD2, Glycerophosphate Dehydrognase-2 Ca(2+) - Responsive Mitochondrial FAD-Linked, Mitochondrial GPD, GPDM, GPD-M, GPDH-M, mtGPD, GDH2.
Molecular Weight:	66.26 kDa
UniProt:	P43304

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	20 mM Tris HCl pH 8, 1 mM EDTA, 50 % Glycerol
Storage:	-20 °C
Storage Comment:	Store at -20 °C